

## Special Issue

# Numerical Modelling of Atmospheres and Oceans II

### Message from the Guest Editor

Numerical models have widely been used in the modelling and prediction of various phenomena in the atmospheres and oceans, with a wide range of spatial and temporal scales. JMSE is pleased to announce a Special Issue "Numerical Modelling of Atmospheres and Oceans II", which is based on the great success of our previous one "Numerical Modelling of Atmospheres and Oceans". The subjects of this Special Issue include, but are not limited to:

- Development and validations of new numerical methods and data assimilation;
- Numerical studies on the main processes in atmospheres and oceans, particularly during extreme weather conditions;
- Coupling between atmospheric and ocean models;
- Predictions and predictability of climate models;
- New parameterizations for sub-grid scale processes in numerical models;
- Numerical studies on atmosphere–ocean interactions, interactions of ocean waves and currents, and interactions between ocean currents, waves and sea ice;
- Numerical investigations of environmental conditions over coastal and inland waters;
- Numerical studies of hydrodynamic instabilities and mixing.

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### Guest Editor

Prof. Dr. Jinyu Sheng

Department of Oceanography, Dalhousie University, Halifax, NS B3H 4R2, Canada

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### Deadline for manuscript submissions

closed (5 March 2024)



## Journal of Marine Science and Engineering

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an Open Access Journal  
by MDPI

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Impact Factor 2.8  
CiteScore 5.6



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## About the Journal

### Message from the Editor-in-Chief

*Journal of Marine Science and Engineering (JMSE, ISSN: 2077-1312)* focuses on research in the fields of Ocean Engineering, Coastal Engineering, Physical Oceanography, Geological Oceanography, Marine Biology, and Marine Environmental Science. It publishes reviews, regular research papers, and short communications, as well as Special Issues on particular subjects. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the maximum length of the papers.

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### Editor-in-Chief

Prof. Dr. Charitha Pattiaratchi

School of Engineering, The UWA Oceans Institute, The University of Western Australia, Perth, WA 6009, Australia

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#### High Visibility:

indexed with Scopus, SCIE (Web of Science), Ei Compendex, GeoRef, Inspec, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Marine) / CiteScore - Q1 (Ocean Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.5 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2025).